



Technical details for ingesting Live-TV channels to the Zattoo backend over IP

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When a channel is not already available on Zattoo and you would like to provide the ingest stream, you can do so either over a direct link, at exchange points or over the internet.

In all cases, Zattoo can work with common industry formats: especially MPEG-2, H.264, H.265 for video, MPEG audio, AAC or AC-3 for audio.

Video resolution should be 576p for standard-definition channels and at least 720p for high-definition channels. Regarding bitrates we recommend at least 4 Mbps for SD and 8 Mbps for HD. For UHD/4K content should be at least 20 Mbps. Depending on the actual feed quality, other bitrates can be fine as well.

1. Over a direct link

This is an option if you or your technical distributor have a private network interconnection with Zattoo, a virtual leased line (VLL) which similarly provides a Layer-2 connection to Zattoo's network infrastructure or you would be interested to set up a direct connection. This is especially the recommended way, if a bigger bunch of signals is supposed to be delivered as multicast MPEG transport streams.

List of existing PoPs for ingest over direct link, demarcation details upon request:

Colozueri

Address: Colozueri, Badenerstrasse 569 - 8048 Zürich, Switzerland

Equinix ZH4

Address: Equinix, Josefstrasse 225 - 8005 Zurich, Switzerland

Digital Realty FRA8

Address: Digital Realty, Hanauer Landstrasse 302 - 60314 Frankfurt am Main, Germany

Equinix FR5

Address: Equinix, Kleyerstr. 88-90 - 60326 Frankfurt am Main, Germany

Telehouse TH2

Address: Telehouse Rue Léon Frot - 75011 Paris, France

2. Multicast exchange points

BIX

We are present at [BIX.bg](https://bix.bg) as a multicast receiver. If you or your channel signals are available there, you can enable the delivery for us right away. No further coordination regarding the delivery would be required.

3. Over the internet

You can send signals directly over the internet as well. Beware that your (providers) network connectivity must have enough upload capacity and be reliable enough to ensure the intended quality of service. If a bigger amount of channels should be delivered, this way would not be the preferred way of delivery.

SRT

A possible way of delivery is SRT (www.srtalliance.org). We support caller and listener mode. We would prefer to be in the caller role. Depending on the preferred way of delivery, we need the source address and the port or would you provide a destination address and a port to which you can send the signal. For the second option we would need the IP address of the origin to enable it in our network gear. Please let us know if you have any preferences in regards to latency or encryption. Depending on the requirements, we can offer a redundant setup with the delivery to two independent systems.

Zixi

When you use Zixi (www.zixi.com) to distribute your channels, then you can provide us the

signals that way. In addition to the standard parameters (host, port, stream, optional decryption key) necessary for the delivery we would need the IP addresses of all relevant servers on your end to enable them on our network gear. If required, we can do a setup with an additional backup source.